Newzen Consultants Bangalore

NZ/QC/YPD/T&F-W3/2018-19/P1-BC15

Date: 25-05-2018

1.TEST REPORT ON BITUMINOUS MIXES :

(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub: To determine the percentage of bitumen and gradation for BC mix sample.

{Project*: Pkg 1, 1.Improvement of drains and resurfacing to roads in SFS 208 area in ward no.03, Attur.
2.Improvement of drains and resurfacing to roads in SFS 407 area in ward no.03, Attur.
3.Improvement of drains and resurfacing to roads in SFS 707 area in ward no.03, Attur.
4.Improvement of drains and resurfacing to roads in Industrial area in ward no.03, Attur.
5.Improvement of Roads and drains in CHS 707 area in ward no.03, Attur.}

Ref.: Material testing/PMC/17-18,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. BB Umesha (M/s SMLP Constructions & Asphalt).

TEST RESULTS

A. Type of Construction : **Bituminous Concrete**

1. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = **5.43 %**

2. **Gradation Test**

TABLE 1.1

Sieve Size, mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Gradation requirement as per Table 500-17 of MORTH Specfications-2013 BC (Grading - 2)
19.0	**100**	100
13.2	**97.85**	90-100
9.5	**84.98**	70-88
4.75	**66.87**	53-71
2.36	**55.76**	42-58
1.18	**43.54**	34-48
0.600	**31.87**	26-38
0.300	**25.55**	18-28
0.150	**17.23**	12-20
0.075	**7.23**	4-10

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Proprietor

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Newzen Consultants Bangalore

NZ/QC/YPD/T&F-W3/2018-19/P1-BS15

Date: 26-05-2018

1.TEST REPORT ON BITUMINOUS MIXES :
(STABILITY OF BITUMINOUS MIX)

Sub: To determine the stability of bituminous mix for BC mix sample.
{Project*: Pkg 1, 1.Improvement of drains and resurfacing to roads in SFS 208 area in ward no.03, Attur.
2.Improvement of drains and resurfacing to roads in SFS 407 area in ward no.03, Attur.
3.Improvement of drains and resurfacing to roads in SFS 707 area in ward no.03, Attur.
4.Improvement of drains and resurfacing to roads in Industrial area in ward no.03, Attur.
5.Improvement of Roads and drains in CHS 707 area in ward no.03, Attur.}
Ref.: Material testing/PMC/17-18,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. BB Umesha (M/s SMLP Constructions & Asphalt).

TEST RESULTS

Table 1: Properties of BC (Gr-2) Mix

Sl. No.	Test Property	*Test results obtained by Marshall method	Requirements of Bituminous Concrete, Grade-2 as per M.o.R.T&H (V Revision)-2013 Specifications
1	Marshall Stability (75 blows) (At 60°C), kgs.	**1287**	900
2	Marshall Flow at 60°C, mm.	**3.62**	2.0 - 4.0

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NZ/QC/YPD/T&F-W3/2018-19/P1-C2 Date: 18-04-2018

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).

{Project*: Pkg 1, 1.Improvement of drains and resurfacing to roads in SFS 208 area in ward no.03, Attur.
2.Improvement of drains and resurfacing to roads in SFS 407 area in ward no.03, Attur.
3.Improvement of drains and resurfacing to roads in SFS 707 area in ward no.03, Attur.
4.Improvement of drains and resurfacing to roads in Industrial area in ward no.03, Attur.
5.Improvement of Roads and drains in CHS 707 area in ward no.03, Attur.}

Ref.: Material testing/PMC/17-18,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. BB Umesha (M/s SMLP Constructions & Asphalt).

PHYSICAL TESTS ON CEMENT

Brand : RAMCO
Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**153 min**	Shall not be less than 30 min
2	Final setting time	**274 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**1.94 %**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**2.43 mm**	Shall not be more than 10 mm
5	Compressive strength b) 3 days (average of three results)	**28.72 N/Sq mm**	Shall not be less than 27 N/Sqmm

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NZ/QC/YPD/T&F-W3/2018-19/P1-PCC2

Date: 18-04-2018

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.

{Project*: Pkg 1, 1.Improvement of drains and resurfacing to roads in SFS 208 area in ward no.03, Attur.
2.Improvement of drains and resurfacing to roads in SFS 407 area in ward no.03, Attur.
3.Improvement of drains and resurfacing to roads in SFS 707 area in ward no.03, Attur.
4.Improvement of drains and resurfacing to roads in Industrial area in ward no.03, Attur.
5.Improvement of Roads and drains in CHS 707 area in ward no.03, Attur.}

Ref.: Material testing/PMC/17-18,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. BB Umesha (M/s SMLP Constructions & Asphalt).

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	100.00	85-100	90 – 100
20mm	62.33	0 -20	30- 70
10mm	25.76	0 -5	10- 35
4.75mm	2.87	------	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	96.34	90-100	90-100	90-100	The Sample Conforms to Grading Zone-II
02.36	83.13	60-95	75-100	85-100	
01.18	64.56	30-70	55-90	75-100	
600.mic	48.23	15-34	35-59	60-79	
300.mic	24.14	5-20	8-30	12-40	
150.mic	6.97	0-10	0-10	0-10	

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NZ/QC/YPD/T&F-W3/2018-19/P1-C3

Date: 20-04-2018

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).

{Project*: Pkg 1, 1.Improvement of drains and resurfacing to roads in SFS 208 area in ward no.03, Attur.
2.Improvement of drains and resurfacing to roads in SFS 407 area in ward no.03, Attur.
3.Improvement of drains and resurfacing to roads in SFS 707 area in ward no.03, Attur.
4.Improvement of drains and resurfacing to roads in Industrial area in ward no.03, Attur.
5.Improvement of Roads and drains in CHS 707 area in ward no.03, Attur.}

Ref.: Material testing/PMC/17-18,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. BB Umesha (M/s SMLP Constructions & Asphalt).

PHYSICAL TESTS ON CEMENT

Brand : RAMCO
Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**153 min**	Shall not be less than 30 min
2	Final setting time	**274 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**2.26 %**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**2.32 mm**	Shall not be more than 10 mm
5	Compressive strength c) 3 days (average of three results)	**30.33 N/Sq mm**	Shall not be less than 27 N/Sqmm

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NZ/QC/YPD/T&F-W3/2018-19/P1-PCC3

Date: 20-04-2018

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.
{Project*: Pkg 1, 1.Improvement of drains and resurfacing to roads in SFS 208 area in ward no.03, Attur.
2.Improvement of drains and resurfacing to roads in SFS 407 area in ward no.03, Attur.
3.Improvement of drains and resurfacing to roads in SFS 707 area in ward no.03, Attur.
4.Improvement of drains and resurfacing to roads in Industrial area in ward no.03, Attur.
5.Improvement of Roads and drains in CHS 707 area in ward no.03, Attur.}
Ref.: Material testing/PMC/17-18,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. BB Umesha (M/s SMLP Constructions & Asphalt).

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	100.00	85-100	90 – 100
20mm	63.45	0 -20	30- 70
10mm	26.78	0 -5	10- 35
4.75mm	3.23	------	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	96.54	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	83.67	60-95	75-100	85-100	
01.18	64.89	30-70	55-90	75-100	
600.mic	50.56	15-34	35-59	60-79	
300.mic	23.68	5-20	8-30	12-40	
150.mic	6.89	0-10	0-10	0-10	

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NZ/QC/YPD/T&F-W3/2018-19/P1-C4

Date: 23-04-2018

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).

{Project*: Pkg 1, 1.Improvement of drains and resurfacing to roads in SFS 208 area in ward no.03, Attur.
2.Improvement of drains and resurfacing to roads in SFS 407 area in ward no.03, Attur.
3.Improvement of drains and resurfacing to roads in SFS 707 area in ward no.03, Attur.
4.Improvement of drains and resurfacing to roads in Industrial area in ward no.03, Attur.
5.Improvement of Roads and drains in CHS 707 area in ward no.03, Attur.}

Ref.: Material testing/PMC/17-18,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. BB Umesha (M/s SMLP Constructions & Asphalt).

PHYSICAL TESTS ON CEMENT

Brand : RAMCO
Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**157 min**	Shall not be less than 30 min
2	Final setting time	**275 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**1.92 %**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**2.34 mm**	Shall not be more than 10 mm
5	Compressive strength d) 3 days (average of three results)	**30.04 N/Sq mm**	Shall not be less than 27 N/Sqmm

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NZ/QC/YPD/T&F-W3/2018-19/P1-PCC4

Date: 23-04-2018

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.

{Project*: Pkg 1, 1.Improvement of drains and resurfacing to roads in SFS 208 area in ward no.03, Attur.
2.Improvement of drains and resurfacing to roads in SFS 407 area in ward no.03, Attur.
3.Improvement of drains and resurfacing to roads in SFS 707 area in ward no.03, Attur.
4.Improvement of drains and resurfacing to roads in Industrial area in ward no.03, Attur.
5.Improvement of Roads and drains in CHS 707 area in ward no.03, Attur.}

Ref.: Material testing/PMC/17-18,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. BB Umesha (M/s SMLP Constructions & Asphalt).

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	100.00	85-100	90 – 100
20mm	63.56	0 -20	30- 70
10mm	25.98	0 -5	10- 35
4.75mm	3.98	------	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	96.78	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	83.46	60-95	75-100	85-100	
01.18	64.98	30-70	55-90	75-100	
600.mic	50.22	15-34	35-59	60-79	
300.mic	23.13	5-20	8-30	12-40	
150.mic	6.87	0-10	0-10	0-10	

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Newzen Consultants Bangalore

NZ/QC/YPD/T&F-W3/2018-19/P1-C5

Date: 25-04-2018

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).

{Project*: Pkg 1, 1.Improvement of drains and resurfacing to roads in SFS 208 area in ward no.03, Attur.
2.Improvement of drains and resurfacing to roads in SFS 407 area in ward no.03, Attur.
3.Improvement of drains and resurfacing to roads in SFS 707 area in ward no.03, Attur.
4.Improvement of drains and resurfacing to roads in Industrial area in ward no.03, Attur.
5.Improvement of Roads and drains in CHS 707 area in ward no.03, Attur.}

Ref.: Material testing/PMC/17-18,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. BB Umesha (M/s SMLP Constructions & Asphalt).

PHYSICAL TESTS ON CEMENT

Brand : RAMCO
Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**159 min**	Shall not be less than 30 min
2	Final setting time	**271 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**1.98 %**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**2.87 mm**	Shall not be more than 10 mm
5	Compressive strength e) 3 days (average of three results)	**30.86 N/Sq mm**	Shall not be less than 27 N/Sqmm

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NZ/QC/YPD/T&F-W3/2018-19/P1-PCC5

Date: 25-04-2018

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.
{Project*: Pkg 1, 1.Improvement of drains and resurfacing to roads in SFS 208 area in ward no.03, Attur.
2.Improvement of drains and resurfacing to roads in SFS 407 area in ward no.03, Attur.
3.Improvement of drains and resurfacing to roads in SFS 707 area in ward no.03, Attur.
4.Improvement of drains and resurfacing to roads in Industrial area in ward no.03, Attur.
5.Improvement of Roads and drains in CHS 707 area in ward no.03, Attur.}
Ref.: Material testing/PMC/17-18,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. BB Umesha (M/s SMLP Constructions & Asphalt).

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	100.00	85-100	90 – 100
20mm	64.65	0 -20	30- 70
10mm	25.76	0 -5	10- 35
4.75mm	2.80	------	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	96.67	90-100	90-100	90-100	The Sample Conforms to Grading Zone-II
02.36	83.45	60-95	75-100	85-100	
01.18	64.87	30-70	55-90	75-100	
600.mic	50.23	15-34	35-59	60-79	
300.mic	23.33	5-20	8-30	12-40	
150.mic	8.26	0-10	0-10	0-10	

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NZ/QC/YPD/T&F-W3/2018-19/P1-C6

Date: 28-04-2018

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).

{Project*: Pkg 1, 1.Improvement of drains and resurfacing to roads in SFS 208 area in ward no.03, Attur.
2.Improvement of drains and resurfacing to roads in SFS 407 area in ward no.03, Attur.
3.Improvement of drains and resurfacing to roads in SFS 707 area in ward no.03, Attur.
4.Improvement of drains and resurfacing to roads in Industrial area in ward no.03, Attur.
5.Improvement of Roads and drains in CHS 707 area in ward no.03, Attur.}

Ref.: Material testing/PMC/17-18,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. BB Umesha (M/s SMLP Constructions & Asphalt).

PHYSICAL TESTS ON CEMENT

Brand : RAMCO
Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**154 min**	Shall not be less than 30 min
2	Final setting time	**264 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**2.06 %**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**2.36 mm**	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results)	**30.28 N/Sq mm**	Shall not be less than 27 N/Sqmm

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Newzen Consultants Bangalore

NZ/QC/YPD/T&F-W3/2018-19/P1-FA1

Date: 28-04-2018

1. TESTING OF FINE AGGREGATES :

Sub: Testing of Fine Aggregates.

{Project*: Pkg 1, 1.Improvement of drains and resurfacing to roads in SFS 208 area in ward no.03, Attur.
2.Improvement of drains and resurfacing to roads in SFS 407 area in ward no.03, Attur.
3.Improvement of drains and resurfacing to roads in SFS 707 area in ward no.03, Attur.
4.Improvement of drains and resurfacing to roads in Industrial area in ward no.03, Attur.
5.Improvement of Roads and drains in CHS 707 area in ward no.03, Attur.}

Ref.: Material testing/PMC/17-18,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. BB Umesha (M/s SMLP Constructions & Asphalt).

TABLE - 1.1 : SIEVE ANALYSIS :

IS Sieve Size,mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -II	
04.75	**97.68**	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	**83.13**	60-95	75-100	85-100	
01.18	**78.29**	30-70	55-90	75-100	
600. mic	**47.87**	15.34	35-59	60-79	
300.mic	**12.34**	5-20	8-30	12-40	
150.mic	**7.23**	0-10	0-10	0-10	

TABLE 1.2 ;

Sl No	Test Conducted	Sample	Results	Requirements as Per IS. Specification IS :383-1970 (Reaffirmed 2002)
1	Bulking of Sand	001	**16.75 %**	-----
2	Silt Content	----	**0.63%**	Not more than 8%
3	Specific Gravity	----	**2.63**	------

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NZ/QC/YPD/T&F-W3/2018-19/P1-CA1

Date: 28-04-2018

1. TESTING OF COARSE AGGREGATES (20 mm):

Sub: Testing of Construction Materials.

{Project*: Pkg 1, 1.Improvement of drains and resurfacing to roads in SFS 208 area in ward no.03, Attur.
2.Improvement of drains and resurfacing to roads in SFS 407 area in ward no.03, Attur.
3.Improvement of drains and resurfacing to roads in SFS 707 area in ward no.03, Attur.
4.Improvement of drains and resurfacing to roads in Industrial area in ward no.03, Attur.
5.Improvement of Roads and drains in CHS 707 area in ward no.03, Attur.}

Ref.: Material testing/PMC/17-18,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. BB Umesha (M/s SMLP Constructions & Asphalt).

Table - 1.1 : SIEVE ANALYSIS :

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2002) % Passing	
	20 mm Sample	Single size	Graded
40 mm	100.00	100.00	100.00
20 mm	97.86	85-100	90 - 100
10 mm	42.48	0 - 20	25 - 55
4.75 mm	7.56	0 - 5	0 - 10

TABLE 1. 2 :

SL No	Test conducted	Results	Requirements as per IS:383-1970 & Tests Conforms to IS 2386(Part I to IV) – 1963 (Reaffirmed on 2002)
1.	Flakiness Index	23.76 %	Not to exceed 25 %
2.	Crushing value	28.89 %	Not to exceed 45 % for concrete other than for wearing surfaces and 30% for concrete for wearing surfaces

KIRAN. R
M.E, (Civil-Engg)

AE

For Newzen Consultants Bangalore

Proprietor

NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA,
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NZ/QC/YPD/T&F-W3/2018-19/P1-CB1

Date: 09-05-2018

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).

{Project*: Pkg 1, 1.Improvement of drains and resurfacing to roads in SFS 208 area in ward no.03, Attur.
2.Improvement of drains and resurfacing to roads in SFS 407 area in ward no.03, Attur.
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Ref.: Material testing/PMC/17-18,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. BB Umesha (M/s SMLP Constructions & Asphalt).

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	02-05-18	09-05-18	07	22500	395	17.56	**17.04**
	002	"	"	"	"	380	16.89	
	003	"	"	"	"	375	16.67	

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NZ/QC/YPD/T&F-W3/2018-19/P1-CB2

Date: 10-05-2018

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).

{Project*: Pkg 1, 1.Improvement of drains and resurfacing to roads in SFS 208 area in ward no.03, Attur.
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Ref.: Material testing/PMC/17-18,

Report Required for: Assistant Executive Engineer,
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	003	"	"	"	"	385	17.11	

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